

4. (Amended) The solid electrolytic capacitor as claimed in claim 1, in which each unit layer of the solid electrolyte constituting the lamellar structure has a thickness in the range of 0.01-5 μ m and a total thickness of the solid electrolyte layer is in the range of 1-200 μ m.

5. (Amended) The solid electrolytic capacitor as claimed in claim 1, in which the solid electrolyte layer comprises a composition containing a π -electron conjugated polymer and/or other electrically conducting polymer.